

October 25, 2004





## **Formation of Subgroups**

- Formation of the following sub-groups
  - Interface Architecture
  - Information Architecture
  - System Architecture
  - Security and Access Control
  - Software Development Best Practices and Standards
  - ID Management
  - Workflow





### **Key Decisions to date**

- XML will be used as the primary data exchange format with allowances for binary format that do not need XML
- XML will be the standard data and metadata exchange format
  - Some metadata would be treated as data
- XML schemas should be used to model structure of XML
- A Common Query Language for data and metadata is required
  - This Query Language should be expressible in XML
- Agreed on need for a solution to universal stable identifier for data objects
  - Exploring LSID; OID; Etc.
- Decided on using Globus Toolkit Version 3.2
- Decided on using OGSA-DAI Version 4.0
- Use Enterprise Architect for UML Modeling





### **Key Decisions to date**

- Mentoring Team Members Assignment per Developer Project
- Role of Mentoring Team Member
  - Guide the Development Projects from the Domain Workspaces towards Silver Level Compliance
  - Guide with overall Architectural Best Practices
    - System Architecture
    - Interface Architecture
    - Information Architecture
    - Development Methodologies





#### caGRID - Phase I

- Activities to Date
  - Requirements analysis for caCORE virtualization
  - First iteration use cases for
    - Advertisement
    - Discovery
    - Query
    - Object Mapping
    - Semantic Mapping
  - Evaluation of candidate technologies
  - Implementation of caGRID prototype
  - Web presentation/demonstration to caBIG Architecture Workspace
  - caGRID white paper released





## caGRID Team Mission

"Define the caBIG system architecture that satisfies the requirements of the caBIG Community"





### **Project Team**

- caBIG Architecture Workspace
- caBIG VCDE Workspace
- William Sanchez (SAIC)
- ► Tara Akhavan (SAIC)
- Steve Lagou (Panther Informatics)
- ► Tahsin Kurc (osu)
- Scott Oster (OSU)
- ▶ Shannon Hastings (OSU)
- Steve Langella (OSU)
- Manav Kher (SAIC)
- Joshua Phillips (SAIC)
- Arumani Manisundaram (BAH)
- Michael Keller (BAH)





# **Proposed High-Level – Time Line**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Requirements Analysis									
System Architecture									
Reference Implementation									
Technology Evaluation									





Informatics Grid

## Requirements Analysis

- Define high-level requirements (collaboration/grid) for each workspace
  - Identify actors (data sources, applications, external entities like the FDA)
  - Identify significant use cases, mainly collaboration, use cases
- Create a caBIG use case model
  - Identify the common use cases among workspaces
  - Identify common actors
  - Detail common use cases
- Determine supplementary requirements
  - Identify supplementary requirements like security, performance, open source, etc.
- Perform a unified use case analysis





## Road to Gold





